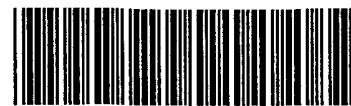# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/784,633A_

Source: _1FWP_

Date Processed by STIC: _10/18/04_

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RAW SEQUENCE LISTING   DATE: 10/18/2004
PATENT APPLICATION: **US/10/784,633A**   TIME: 10:01:23

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 3  <110> APPLICANT: SHIRAI, Tomoyuki
 4         ASAMOTO, Makoto
 5         HOKAIWADO, Naomi
 7  <120> TITLE OF INVENTION: Carcinogen-hypersensitive rat
 9  <130> FILE REFERENCE: 671302-3004
11  <140> CURRENT APPLICATION NUMBER: 10/784,633A
12  <141> CURRENT FILING DATE: 2004-02-23
14  <150> PRIOR APPLICATION NUMBER: JP P2001-253241
15  <151> PRIOR FILING DATE: 2001-08-23
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18  <151> PRIOR FILING DATE: 2001-08-23
20  <160> NUMBER OF SEQ ID NOS: 6
22  <170> SOFTWARE: PatentIn Ver. 2.1
24  <210> SEQ ID NO: 1
25  <211> LENGTH: 1485
26  <212> TYPE: DNA
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30  <221> NAME/KEY: CDS
31  <222> LOCATION: (32)..(883)
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35                                      Met Asn Trp Thr Gly Leu Tyr
36                                       1               5
38  acc ttg ctc agt ggc gtg aat cgg cat tct aca gcc att ggc cga gta     100
39  Thr Leu Leu Ser Gly Val Asn Arg His Ser Thr Ala Ile Gly Arg Val
40           10                  15                  20
42  tgg ctg tcc gtc atc ttt atc ttc aga atc atg gtg ctg gtg gtg gct     148
43  Trp Leu Ser Val Ile Phe Ile Phe Arg Ile Met Val Leu Val Val Ala
44       25                  30                  35
46  gca gag agc gtg tgg ggt gat gag aag tct tct ttc atc tgt aac acc     196
47  Ala Glu Ser Val Trp Gly Asp Glu Lys Ser Ser Phe Ile Cys Asn Thr
48  40                  45                  50                  55
50  ctc cag ccg ggc tgt aac agc gtc tgc tat gac cat ttt ttc ccc atc     244
51  Leu Gln Pro Gly Cys Asn Ser Val Cys Tyr Asp His Phe Phe Pro Ile
52                  60                  65                  70
54  tcc cat gtg cgc ctg tgg tcc ctg caa ctc atc ttg gtt tcc acc cca     292
55  Ser His Val Arg Leu Trp Ser Leu Gln Leu Ile Leu Val Ser Thr Pro
56                  75                  80                  85
58  gct ctc ctc gtg gca atg cac gtg gct cac caa caa cac ata gaa aag     340
59  Ala Leu Leu Val Ala Met His Val Ala His Gln Gln His Ile Glu Lys
60               90                  95                  100
62  aaa atg cta cgg ctt gag ggg cac ggg gac ccc ctt cac ctg gaa gag     388
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63 Lys Met Leu Arg Leu Glu Gly His Gly Asp Pro Leu His Leu Glu Glu
64     105                 110             115
66 gta aag agg cac aag gtg cac atc tca ggg aca ctg tgg tgg acc tat    436
67 Val Lys Arg His Lys Val His Ile Ser Gly Thr Leu Trp Trp Thr Tyr
68 120                 125             130             135
70 gtc atc agt gtg gtg ttc cgg ctg ctg ttt gag gct gtc ttc atg tat    484
71 Val Ile Ser Val Val Phe Arg Leu Leu Phe Glu Ala Val Phe Met Tyr
72                 140             145             150
74 gtc ttc tat ctg ctc tac ccg ggc tat gcc atg gtg cgg ctg gtc aag    532
75 Val Phe Tyr Leu Leu Tyr Pro Gly Tyr Ala Met Val Arg Leu Val Lys
76             155             160             165
78 tgt gag gcc ttc ccc tgc ccc aac acg gtg gac tgc ttc gtg tcc cgc    580
79 Cys Glu Ala Phe Pro Cys Pro Asn Thr Val Asp Cys Phe Val Ser Arg
80         170             175             180
82 ccc act gag aaa acc gtc ttc act gtc ttt atg ctc gcc gcc tcc ggc    628
83 Pro Thr Glu Lys Thr Val Phe Thr Val Phe Met Leu Ala Ala Ser Gly
84     185             190             195
86 atc tgc att atc ctc aac gtg gcg gag gtg gtg tac ctc atc atc cgg    676
87 Ile Cys Ile Ile Leu Asn Val Ala Glu Val Val Tyr Leu Ile Ile Arg
88 200             205             210             215
90 gcc tgt gcc cgc cgt gct cag cgc cgc tcc aat ccg ccc tcc cgc aag    724
91 Ala Cys Ala Arg Arg Ala Gln Arg Arg Ser Asn Pro Pro Ser Arg Lys
92             220             225             230
94 ggc tcg ggc ttc ggc cac cgc ctc tca cct gaa tac aag cag aat gag    772
95 Gly Ser Gly Phe Gly His Arg Leu Ser Pro Glu Tyr Lys Gln Asn Glu
96             235             240             245
98 atc aac aag ctg ctg agc gag cag gat ggc tct ctg aaa gac ata ctg    820
99 Ile Asn Lys Leu Leu Ser Glu Gln Asp Gly Ser Leu Lys Asp Ile Leu
100         250             255             260
102 cgc cgc agt cct ggc act ggg gcc ggg ctg gct gag aag agc gac cga   868
103 Arg Arg Ser Pro Gly Thr Gly Ala Gly Leu Ala Glu Lys Ser Asp Arg
104     265             270             275
106 tgc tca gcc tgc tga tgccgagtac caggcaacct cccatccaac ccctccctca   923
107 Cys Ser Ala Cys
108 280
110 ccccacccag gcctgcccct ccttctccta tgctggtgag caggcctctg cctcctaggg 983
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126 ggttggtcag ggctgccccc agtccccagt tcccaaggcc tctctctctg aaaatgttac 1463
128 acattaaaca ggatttttaca gt                                          1485
131 <210> SEQ ID NO: 2
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134 <213> ORGANISM: Rattus norvegicus
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140              20                  25                  30
141 Ile Met Val Leu Val Val Ala Ala Glu Ser Val Trp Gly Asp Glu Lys
142          35                  40                  45
143 Ser Ser Phe Ile Cys Asn Thr Leu Gln Pro Gly Cys Asn Ser Val Cys
144      50                  55                  60
145 Tyr Asp His Phe Phe Pro Ile Ser His Val Arg Leu Trp Ser Leu Gln
146  65                  70                  75                  80
147 Leu Ile Leu Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val Ala
148              85                  90                  95
149 His Gln Gln His Ile Glu Lys Lys Met Leu Arg Leu Glu Gly His Gly
150              100                 105                 110
151 Asp Pro Leu His Leu Glu Glu Val Lys Arg His Lys Val His Ile Ser
152          115                 120                 125
153 Gly Thr Leu Trp Trp Thr Tyr Val Ile Ser Val Val Phe Arg Leu Leu
154      130                 135                 140
155 Phe Glu Ala Val Phe Met Tyr Val Phe Tyr Leu Leu Tyr Pro Gly Tyr
156 145                 150                 155                 160
157 Ala Met Val Arg Leu Val Lys Cys Glu Ala Phe Pro Cys Pro Asn Thr
158              165                 170                 175
159 Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe Thr Val
160          180                 185                 190
161 Phe Met Leu Ala Ala Ser Gly Ile Cys Ile Ile Leu Asn Val Ala Glu
162          195                 200                 205
163 Val Val Tyr Leu Ile Ile Arg Ala Cys Ala Arg Arg Ala Gln Arg Arg
164      210                 215                 220
165 Ser Asn Pro Pro Ser Arg Lys Gly Ser Gly Phe Gly His Arg Leu Ser
166 225                 230                 235                 240
167 Pro Glu Tyr Lys Gln Asn Glu Ile Asn Lys Leu Leu Ser Glu Gln Asp
168              245                 250                 255
169 Gly Ser Leu Lys Asp Ile Leu Arg Arg Ser Pro Gly Thr Gly Ala Gly
170          260                 265                 270
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172          275                 280
176 <210> SEQ ID NO: 3
177 <211> LENGTH: 21
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Artificial insertion sequence obtained from
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183       moiety
185 <400> SEQUENCE: 3
186 catcatcacc atcaccattg a                                      21
189 <210> SEQ ID NO: 4
190 <211> LENGTH: 20
191 <212> TYPE: DNA
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Output Set: **N:\CRF4\09282004\J784633A.raw**

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194 <220> FEATURE:
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204 <213> ORGANISM: Artificial Sequence
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222 gggaaggttt gatggagtaa t                                      21
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VERIFICATION SUMMARY   DATE: 10/18/2004
PATENT APPLICATION: **US/10/784,633A**   TIME: 10:01:24

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